

SEARCH REQUEST FORM

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JUL 25 2003

(STIC)

Requester's Full Name: MOLLY CEPERLEY Examiner #: 59757 Date: 07/25/03
 Art Unit: 1641 Phone Number 305-4239 Serial Number: 01/889,795
 Mail Box and Bldg/Room Location: RD15 Results Format Preferred (circle): PAPER DISK E-MAIL

↳ 7E12

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers; and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

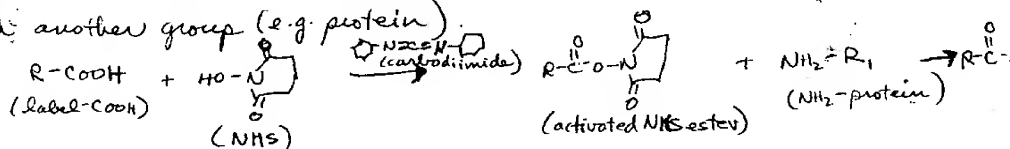
Title of Invention: Simple Methods for Labeled Conjugate Production (Conjugation Methods) (Crosslinking)

Inventors (please provide full names): John T. Merseman, Xiangfei Zeng

Earliest Priority Filing Date: 01/22/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

The chemistry here is well known in the art: reaction of a label (e.g. dye) with N-hydroxy-succinimide (NHS) in the presence of a carbodiimide (CDI). The activated ester can be further reacted to attach another group (e.g. protein).



Novelty is in preparing a combination of the reagents in dry form so they won't react with each other before the final target (e.g. NH₂-protein) is added.

Please search for the combinations of NHS + carbodiimides described on page 9 (optionally with labels described on page 9) IN COMBINATION with terms such as REHYDRAT?, HYDRAT?, DRY, FREEZE DRY, SEQUESTER see claims attached.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____	STN <u>493,73</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>2</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>7/28</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>7/28</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>30</u>	Other _____	Other (specify) _____

09/889,795

WEST Search History

DATE: Friday, July 25, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
L11	L10 and l8	246	L11
L10	conjugat\$	164988	L10
L9	L3 same l4	68	L9
L8	L3 same (l7 or l5 or l4)	501	L8
L7	desicca\$	29408	L7
L6	desicat\$	577	L6
L5	dry\$ or dried	1386942	L5
L4	rehydrat\$ or hydrat\$	167497	L4
L3	L2 same l1	4314	L3
L2	carbodiimide or CDI	32586	L2
L1	\$hydroxy\$l succinimide or NHS	165774	L1

END OF SEARCH HISTORY